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July 2008 Communications of the ACM

Publisher: ACM

Full text available: [Digital Edition](#), [Pdf](#) (6.54 MB)Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 4993, Downloads (12 Months): 6949, Downloads (Overall): 7924, Citation Count: 0

2 [Tailor-made lock protocols and their DBMS integration](#) [Sebastian Bächle, Theo Härder](#)

March 2008 SETMDM '08: Proceedings of the 2008 EDBT workshop on Software engineering for tailor-made data management

Publisher: ACM

Full text available: [Pdf](#) (451.98 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 23, Downloads (Overall): 31, Citation Count: 0

We outline the use of fine-grained lock protocols as a concurrency control mechanism for the collaboration on XML documents and show that their tailor-made optimization towards the access model used (e.g., DOM operations) pays off. We discuss how hard-wired ...

3 [The Chubby lock service for loosely-coupled distributed systems](#)[Mike Burrows](#)

November 2006 OSDI '06: Proceedings of the 7th symposium on Operating systems design and implementation

Publisher: USENIX Association

Full text available: [Pdf](#) (201.57 KB)Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 108, Downloads (Overall): 203, Citation Count: 11

We describe our experiences with the Chubby lock service, which is intended to provide coarse-grained locking as well as reliable (though low-volume) storage for a loosely-coupled distributed system. Chubby provides an interface much like a distributed ...

4 [Experience distributing objects in an SMMP OS](#) [Jonathan Appavoo, Dilma Da Silva, Orran Krieger, Marc Auslander, Michal Ostrowski, Bryan Rosenberg, Amos Waterland, Robert W. Wisniewski, Jimi Xenidis, Michael Stumm, Livio Soares](#)

August 2007 Transactions on Computer Systems (TOCS), Volume 25 Issue 3

Publisher: ACM [Request Permissions](#)Full text available: [Pdf](#) (751.56 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 27, Downloads (12 Months): 176, Downloads (Overall): 577, Citation Count: 3

Designing and implementing system software so that it scales well on shared-memory multiprocessors (SMMPs) has proven to be surprisingly challenging. To improve scalability, most designers to date have focused on concurrency by iteratively eliminating ...

**Keywords:** Concurrency, Distribution, Locality, Scalability SMMP

5 [Scheduler-conscious synchronization](#)



[Leonidas I. Koniothanassis](#), [Robert W. Wisniewski](#), [Michael L. Scott](#)

February 1997 **Transactions on Computer Systems (TOCS)** , Volume 15 Issue 1

**Publisher:** ACM [Request Permissions](#)

Full text available: [PDF](#) (682.20 KB)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 19, Downloads (12 Months): 63, Downloads (Overall): 544, Citation Count: 19

Efficient synchronization is important for achieving good performance in parallel programs, especially on large-scale multiprocessors. Most synchronization algorithms have been designed to run on a dedicated machine, with one application process per ...

**Keywords:** barriers, busy-waiting, kernel-user interaction, locks, mutual exclusion, preemption, scalability, scheduling, synchronization

6 [Self-tuning management of update-intensive multidimensional data in clusters of workstations](#)

[Vassil Kiriakov](#), [George Kollios](#), [Alex Delis](#)

June 2009 **The VLDB Journal — The International Journal on Very Large Data Bases** , Volume 18 Issue 3

**Publisher:** Springer-Verlag New York, Inc.

Full text available: [PDF](#) (1.26 MB)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 15, Downloads (12 Months): 35, Downloads (Overall): 35, Citation Count: 0

Contemporary applications continuously modify large volumes of multidimensional data that must be accessed efficiently and, more importantly, must be updated in a timely manner. Single-server storage approaches are insufficient when managing such volumes ...

**Keywords:** Cluster of workstations, Multi-dimensional data, Self-tuning storage

7 [Evolving a language in and for the real world: C++ 1991-2006](#)



[Bjarne Stroustrup](#)

June 2007 **HOPL III: Proceedings of the third ACM SIGPLAN conference on History of programming languages**

**Publisher:** ACM [Request Permissions](#)

Full text available: [MOV](#) (60:46 MIN), [PDF](#) (838.10 KB)

**Additional Information:** [full citation](#), [appendices and supplements attached](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 49, Downloads (12 Months): 665, Downloads (Overall): 2003, Citation Count: 0

This paper outlines the history of the C++ programming language from the early days of its ISO standardization (1991), through the 1998 ISO standard, to the later stages of the C++0x revision of that standard (2006). The emphasis is on the ideals, constraints, ...

**Keywords:** C++, ISO, STL, evolution, history, language use, libraries, multi-paradigm programming, programming language, standardization

8 [Atomicity and isolation for transactional processes](#)

 [Heiko Schmidt, Gustavo Alonso, Gatriel Beerl, Hans-Jörg Schek](#)  
 March 2002 **Transactions on Database Systems (TODS)** , Volume 27 Issue 1

**Publisher:** ACM  [Request Permissions](#)


Full text available:  [PDF](#) (1.22 MB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 13, Downloads (12 Months): 120, Downloads (Overall): 1245, Citation Count: 19

Processes are increasingly being used to make complex application logic explicit. Programming using processes has significant advantages but it poses a difficult problem from the system point of view in that the interactions between processes cannot ...

**Keywords:** Advanced transaction models, business process management, electronic commerce, execution guarantees, locking, rocesses, semantically rich transactions, transactional workflows, unified theory of concurrency control and recovery

9 [An open architecture for next-generation telecommunication services](#)

 [Gregory W. Bond, Eric Cheung, K. Hal Purdy, Pamela Zave, J. Christopher Ramming](#)  
 February 2004 **Transactions on Internet Technology (TOIT)** , Volume 4 Issue 1

**Publisher:** ACM  [Request Permissions](#)


Full text available:  [PDF](#) (237.24 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 43, Downloads (12 Months): 365, Downloads (Overall): 5133, Citation Count: 7

An open (in the sense of extensible and programmable) architecture for IP telecommunications must be based on a comprehensive strategy for managing feature interaction. We describe our experience with BoxOS, an IP telecommunication platform that implements ...

**Keywords:** Component architectures, Intelligent Network architecture, Session Initiation Protocol, electronic mail, feature interaction, instant messaging, multimedia systems, network addressing, network interoperation, network optimization, network protocols, service creation

10 [A real-time Java virtual machine with applications in avionics](#)

 [Austin Armbruster, Jason Baker, Antonio Quinel, Chapman Flack, David Holmes, Filip Pleto, Edward Pla, Marek Prochazka, Jan Vitek](#)

December 2007 **Transactions on Embedded Computing Systems (TECS)** , Volume 7 Issue 1

**Publisher:** ACM  [Request Permissions](#)


Full text available:  [PDF](#) (1.16 MB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 27, Downloads (12 Months): 295, Downloads (Overall): 676, Citation Count: 3

This paper reports on our experience with the implementation of the Real-time Specification for Java on the Ovm open source Java virtual machine. We describe the architecture and main design decisions involved in implementing real-time Java on Ovm. We ...

**Keywords:** Avionics, Real-time Java, memory management, virtual machines

11 [Realistic hair simulation: animation and rendering](#)

 [Florence Bertails, Sunil Hadap, Marie-Paule Cant, Ming Lin, Tae-Yong Kim, Steve Marschner, Kelly Ward, Zoran Karic, Aleksi](#)

August 2008 **SIGGRAPH '08: SIGGRAPH 2008 classes**

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [PDF](#) (2.80 MB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 41, Downloads (12 Months): 580, Downloads (Overall): 631, Citation Count: 0

The last five years have seen a profusion of innovative solutions to one of the most challenging tasks in character synthesis: hair simulation. This class covers both recent and novel research ideas in hair animation and rendering, and presents time ...

12 [Queue: Volume 6 Issue 5](#)

September 2008

Queue

Publisher: ACM

Full text available:  [Digital Edition](#) ,  [Pdf](#) (6.07 MB)Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 36, Downloads (12 Months): 525, Downloads (Overall): 525, Citation Count: 0

13 [Communications of the ACM: Volume 52 Issue 7](#)

July 2009

Communications of the ACM

Publisher: ACM

Full text available:  [Digital Edition](#) ,  [Pdf](#) (7.61 MB)Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 887, Downloads (12 Months): 887, Downloads (Overall): 887, Citation Count: 0

14 [Communications of the ACM: Volume 52 Issue 3](#)

March 2009

Communications of the ACM

Publisher: ACM

Full text available:  [Digital Edition](#) ,  [Pdf](#) (7.04 MB)Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 375, Downloads (12 Months): 2596, Downloads (Overall): 2596, Citation Count: 0

15 [Communications of the ACM: Volume 51 Issue 10](#)

October 2008

Communications of the ACM

Publisher: ACM

Full text available:  [Digital Edition](#) ,  [Pdf](#) (7.16 MB)Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 340, Downloads (12 Months): 3455, Downloads (Overall): 3455, Citation Count: 0

16 [Communications of the ACM: Volume 51 Issue 2](#)

February 2008

Communications of the ACM

Publisher: ACM

Full text available:  [Digital Edition](#) ,  [Pdf](#) (3.89 MB)Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 159, Downloads (12 Months): 1722, Downloads (Overall): 3727, Citation Count: 0

17 [interactions: Volume 16 Issue 2](#)


March 2009

interactions

Publisher: ACM

Full text available:  [Digital Edition](#) ,  [Pdf](#) (17.31 MB)Additional Information: [full citation](#)


Bibliometrics: Downloads (6 Weeks): 123, Downloads (12 Months): 682, Downloads (Overall): 682, Citation Count: 0

18 [External memory algorithms and data structures: dealing with massive data](#) [Jeffrey Scott Vitter](#)

June 2001

Computing Surveys (CSUR) , Volume 33 Issue 2

Publisher: ACM

Full text available:  [Pdf](#) (828.46 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 100, Downloads (12 Months): 959, Downloads (Overall): 6405, Citation Count: 101

Data sets in large applications are often too massive to fit completely inside the computers internal memory. The resulting input/output communication (or I/O) between fast internal memory and slower external memory (such as disks) can be a major performance ...

**Keywords:** B-tree, I/O, batched, block, disk, dynamic, extendible hashing, external memory, hierarchical memory, multidimensional access methods, multilevel memory, online, out-of-core, secondary storage, sorting

19 [Communications of the ACM: Volume 52 Issue 10](#)

October 2009

Communications of the ACM

Publisher: ACM

Full text available:  [Digital Edition](#) ,  [Pdf](#) (7.38 MB)Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 2461, Downloads (12 Months): 2461, Downloads (Overall): 2461, Citation Count: 0

**20** [An Object-Oriented Software Architecture for 3D Mixed Reality Applications](#)

[Wayne Riekarski](#), [Bruce H. Thomas](#)

October 2003 **ISMAR '03: Proceedings of the 2nd IEEE/ACM International Symposium on Mixed and Augmented Reality**

**Publisher:** IEEE Computer Society

Full text available:  [PDF](#) (1.00 MB)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 51, Downloads (Overall): 78, Citation Count: 9

This paper presents a new software architecture for 3Dmixed reality applications, named Tinmith-evo5. Currently thereare a limited number of existing toolkits for the development of3D mixed reality applications, each optimised for a particularfeature ...

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